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JUL 26 2002

TECH CENTER 1600/2900

underlined = deleted in targeting construct

bold = sequence flanking Neo insert in targeting construct

CAGGGTCTCCCTTGCAACCTGAGGAGAGGTGCACACACTCTGAGGACCTAGGTGTGCAAC
CTCTGCCAGATGTGGGGCGTGGCTACCCAGAGGCATGCCCCCTACCCAGCTCCACTGTCC
CCACCTGCTGCTGCTGCTGTTGGTGTGTCTGCTGCTGCCAGAGGCACCCCTCTGCCCAGGT
AATGGACTTTTTTGTGTTGAGAAGTGGAAGCTCTATAGTGACCAATGTCACCACAACCTAAG
CCTGCTGCCCCCACCCTACTGAGCTGGTCTGTAACAGAACCTTCGACAACCTACTCCTGCTG
GCCTGACACCCCTCCCAACACCACTGCCAACATTTCTGCCCTGGTACCTACCTTGGTG
CCACAAAGTGACGACCGCCTAGTGTTCAGAGGTGTGGGCCGATGGGCAGTGGGTTTCG
AGGGCCACGGGGGCAGCCGTGGCGCAACGCCTCCCAATGTCAGTTGGATGATGAAGAGAT
CGAGGTCCAG**GAAGGGGGTGGCCAAGATGTATAGCAGCCAGCAGGTGATGTACACCGTGGG**
CTACAGTCTGTCCCTGGGGGCCCTTGCTCCTTGCGCTGGTCATCCTGCTGGGCCTCAGGAA
GCTGCACTGCACCCGAAACTACATCCATGGGAACCTGTTTGCGTCTCTTGTGCTCAAGGC
TGGCTCTGTGTTGGTTCATCGATTGGCTGCTGAAGACACGGTACAGCCAGAAGATTGGCGA
TGACCTCAGTGTGAGCGTCTGGCTCAGTGACGGGGCGATGGCCGGCTGCAGAGTGGCCAC
AGTGATCATGCAGTACGGCATCATACCCAACCTATTGCTGGTTGCTGGTAGAGGGCGTGTA
CCTGTACAGCCTGCTGAGCCTTGCCACCTTCTCTGAGAGGAGCTTCTTTCCCTCTACCT
GGGCATTGGCTGGGGTGGCCCCCTGCTGTTTGTCTATCCCTGGGTGGTGGTCAAGTGTCT
GTTTGAGAATGTTTCAGTGTCTGGACAGCAATGACAACATGGGATTCTGGTGGATCCTGCG
TATTCCTGTCTTCTTGGCCTTACTGATCAATTTTTTCATCTTTGTCCACATCATTTCACT
TCTTGTGGCCAAGCTGCGTGCCCATCAGATGCACCTATGCTGATTACAAGTTCCGGCTGGC
CAGGTCCACGCTGACCCTCATCCCTCTGCTGGGGGTCCACGAGGTGGTCTTTGCCTTTGT****
GACTGACGAGCATGCCCAAGGCACCCCTGCGCTCCACCAAGCTCTTTTTTGACCTGTTCTCT
CAGCTCCTTCCAGGGTCTGCTGGTGGCTGTTCTCTACTGTTTCTCAACAAGGAGGTGCA
GGCAGAGCTGATGCGGCGTTGGAGGCAATGGCAAGAAGGCAAAGCTCTTCAGGAGGAAAG
GTTGGCCAGCAGCCATGGCAGCCACATGGCCCCAGCAGGGCCTTGTCATGGTGATCCCTG
TGAGAACTTCAGCTTATGAGTGCAGGCAGCAGTGGGACTGGCTGTGTGCCCTCTAT
GGAGACCTCGCTGGCCAGTAGTCTCCCAAGGTTGGCTGACAGCCCCACCTGAATCTCCAC
TTGGAGCCTAGGCAGGTGTGTTCAGAAAGGGCCTCAGAGGACAACCCAGAGCCAGATG
CCCCGCCAAGGTTGAAGAGCCAAAGCAGCAAGACAGCAGCTTGTACTGTGCACACTCCCC
TAACCTGTCTTAGCCTGGCACAGGCCACAGTGACAGAGTAGGGGTTGGATATGATGGAGA
AGCCATGTTATCTATGAACTCTGAGTGTTCCTATGTGTGTGACATGGTCCCTGTACCCA
GATATGTCCTTCAGTAAAAAGCTCGAGTGGAGCTGCTGCACAGCTCGTGGACAGCAGGCT
TGAAGCCCCCAGGGACGGGTTTGGGAGGCCGGGGATGAGCAGCACACTCAGCAGGTGGA
GCGCTAGTGCAACCCAGGAAAGAA (SEQ ID NO:1)

FIGURE 2A



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CAGGGTCTCCCTTGCAACCTGAGGAGAGGTGCACACACTCTGAGGACCTAGGTGTGCAAC
CTCTGCCAGATGTGGGGCGTGGCTACCCAGAGGCATGCCCCCTACCCAGCTCCACTGTCC
CCACCTGCTGCTGCTGCTGCTGTTGGTGTGTATGCTGCTGAGGACCCCTCTGCCCAGGT
AATGGACTTTTGTGTTGAGAAGTGAAGCTCTATAGTGACCAATGTCAACACAACCTAAG
CCTGCTGCCCCCACCCTACTGAGCTGGTCTGTAAACAGAACCCTCGACAACCTACTCCTGCTG
GCCTGACACCCCTCCCAACACCCTGCCAACATTTCCCTGCCCCCTGGTACCTACCTTGGTG
CCACAAAGTGCAGCACCGCTAGTGTCAAGAGGTGTGGGCCCCGATGGGCAGTGGGTTCG
AGGGCCACGGGGGACGCCGTGGCGCAACGCCCTCCCAATGTCAGTTGGATGATGAAGAGAT
CGAGGTCCAG**AAGGGGGTGGCCAAGATGTATAGCAGCCAGCAGGTGATGTACACCGTGGG**
CTACAGTCTGTCCCTGGGGGCCCTTGCTCCCTTGCGCTGGTTCATCCTGCTGGGCCCTCAGGAA
GCTGCAGTGCACCCGAAACTACATCCATGGGAACCTGTTTGCGTCCCTTTGTGCTCAAGGC
TGGCTCTGTGTTGGTCACTCGATTGGCTGCTGAAGACACGGTACAGCCAGAAGATTGGCGA
TGACCTCAGTGTGAGCGTCTGGCTCAGTGACGGGGCGATGGCCGGCTGCAGAGTGGCCAC
AGTGATCATGCAGTACGGCATCATACCCAACCTATTGCTGGTTGCTGGTAGAGGGCGTGTA
CCTGTACAGCCTGCTGAGCCTTGCCACCTTCTCTGAGAGGAGCTTCTTTTCCCTCTACCT
GGGCATTGGCTGGGGTGCGCCCCCTGCTGTTTGTATCCCTTGGGTGGTGGTCAAGTGTCT
GTTTGAGAAATGTTCACTGCTGGACAGCAATGACAACATGGGATTCTGGTGGATCCTGCG
TATTCCTGTCTTCCCTGGCCTTACTGATCAATTTTTTCATCTTTGTCCACATCATTCAACT
TCTTGTGGCCAAGCTGCGTGCCCATCAGATGCACTATGCTGATTACAAGTTCCCGCTGGC
CAGGTCCACGCTGACCCTCATCCCTCTGCTGGGGGTCCACGAGGTGGTCTTTGCTTTGT****
GACTGACGAGCATGCCCCAAGGCACCCCTGCGCTCCACCAAGCTCTTTTTTGACCTGTTTCT
CAGCTCCCTCCAGGGTCTGCTGGTGGCTGTTCTCTACTGTTTCTCAACAAGGAGGTGCA
GGCAGAGCTGATGCGGCGTTGGAGGCAATGGCAAGAAGGCAAAGCTCTTCAGGAGGAAAG
GTGGCCAGCAGCCATGGCAGCCACATGGCCCCAGCAGGGCCTTGTCATGGTGTATCCCTG
TGAGAACTTCAGCTTATGAGTGCAGGCAGCAGCAGTGGGACTGGCTGTGTGCCCTCTAT
GGAGACCTCGCTGGCCAGTAGTCTCCCAAGGTGGCTGACAGCCCCACCTGAATCTCCAC
TTGGAGCCTAGGCAGGTGTGTTCAGAAAGGGCCTCAGAGGACAACCCAGAGCCAGATG
CCCGGCCAAGGTTGAAGAGCCAAAGCAGCAAGACAGCAGCTTGTAAGTGTGCACACTCCCC
TAACCTGTCTTAGCCTGGCACAGGCCACAGTGACAGAGTAGGGGTGGATATGATGGAGA
AGCCATGTTATCTATGAACTCTGAGTGTCCCATGTGTGTTGACATGGTCCCTGTACCCA
GATATGTCTTCAGTAAAAAGCTCGAGTGGAGCTGCTGCACAGCTCGTGGACAGCAGGCT
TGAAGCCCCCAGGGACGGGTTTGGGAGGCCGGGATGAGCAGCACACTCAGCAGGTGGA
CGCTAGTGCAACCCAGGAAAGAA (SEQ ID NO:1)

FIGURE 2A